In the Claims:

Please amend claim 10 as indicated below.

Please add new claims 20-23 as indicated below.

This listing of claims will replace all prior versions, and listings, of claims in the application.

1.-9. (Cancelled)

- 10. (Currently amended) DNA encoding a chimeric isoprenoid sesquiterpene synthase polypeptide, wherein said chimeric isoprenoid synthase polypeptide comprises a first isoprenoid synthase polypeptide joined to a second different isoprenoid synthase polypeptide such that the chimeric isoprenoid sesquiterpene synthase polypeptide encoded by the DNA catalyzes: (1) the production of at least one isoprenoid reaction product that is not produced in the absence of the second isoprenoid synthase polypeptide; or (2) the production of more than one isoprenoid reaction product in a ratio differing from the ratio of the products produced in the absence of the second isoprenoid synthase polypeptide.
 - 11. (Original) A vector comprising the DNA of claim 10.
 - 12. (Original) A cell comprising the DNA of claim 10.
 - 13. (Original) The cell of claim 12, wherein said cell is E. coli.
 - 14. (Original) The cell of claim 12, wherein said cell is a plant cell.
- 15. (Previously Presented) A transgenic plant comprising the DNA of claim 10.

- 16. (Previously presented) A vector comprising the chimeric isoprenoid synthase gene of claim 10 and a dominant selectable marker.
- 17. (Previously presented) The vector of claim 16 further comprising additional elements selected from the group consisting of a promoter regulatory region, a transcription initiation start site, a ribosome binding site, an RNA processing signal, a transcription termination site, and a polyadenylation agent.
- 18. (Previously presented) The vector of claim 11 comprising a transcription initiation regulatory region.
- 19. (Previously presented) The vector of claim 11 comprising a transcription termination regulatory region.
- 20. (New) The DNA of claim 10 wherein the chimeric isoprenoid synthase polypeptide encoded by the DNA includes therein a DDXXD motif.
 - 21. (New) A vector comprising the DNA of claim 20.
- 22. (New) The DNA of claim 10 wherein the chimeric isoprenoid synthase polypeptide encoded by the DNA includes therein two chimeric isoprenoid synthase polypeptides.
 - 23. (New) A vector comprising the DNA of claim 22.